

SGCN and Stressors Associated with Habitats

Macrogroup: Subtidal Coarse Gravel Bottom

Habitat Systems within Macrogroup:

MacrogroupName Subtidal Coarse Gravel Bottom

Coarse Gravel

Coarse Gravel Bottom Macrogroup - Unknown Habitat System (i.e. Macrogroup)

Erect Epifauna

Kelp Bed

Description: This Subtidal Macrogroup includes sediment textures/ size classes ranging from pebbles to boulders and their associated biological communities, submerged during the entire tidal cycle. Adopted from CMECS Substrate Components. This category is equivalent to CMECS Substrate Class-Unconsolidated shore, Substrate-Gravel. This includes particle size gravel, granule, pebble, cobble, and boulder.

SGCN Associated With This Habitat		Total SGCN: 1: 5 2: 28 3: 9				
Class	<i>Actinopterygii</i> (Ray-finned Fishes)	SGCN Category				
Species	<i>Ammodytes americanus</i> (American Sand Lance)	3				
Species	<i>Gadus morhua</i> (Atlantic Cod)	1				
Species	<i>Anarhichas lupus</i> (Atlantic Wolffish)	2				
Species	<i>Alosa aestivalis</i> (Blueback Herring)	1				
Species	<i>Brosme brosme</i> (Cusk)	2				
Species	<i>Melanogrammus aeglefinus</i> (Haddock)	1				
Species	<i>Anarhichas minor</i> (Spotted Wolffish)	3				
Species	<i>Pseudopleuronectes americanus</i> (Winter Flounder)	2				
Class	<i>Anthozoa</i> (Corals, Sea Pens, Sea Fans, Sea Anemones)	SGCN Category				
Species	<i>Alcyonium digitatum</i> (Dead Man's Fingers)	3				
Species	<i>Gersemia rubiformis</i> (Sea Strawberry)	2				
Class	<i>Asteroidea</i> (Sea Stars)	SGCN Category				
Species	<i>Asterias rubens</i> (Common Sea Star)	2				
Species	<i>Crossaster papposus</i> (Common Sun Star)	2				
Species	<i>Asterias forbesi</i> (Forbes's Starfish)	2				
Species	<i>Solaster endeca</i> (Purple Sunstar)	2				
Species	<i>Stephanasterias albula</i> (White Sea Star)	2				
Class	<i>Aves</i> (Birds)	SGCN Category				
Species	<i>Bucephala islandica</i> (Barrow's Goldeneye)	1				
Species	<i>Ardea herodias</i> (Great Blue Heron)	2				
Species	<i>Aythya marila</i> (Greater Scaup)	2				
Species	<i>Clangula hyemalis</i> (Long-tailed Duck)	3				
Class	<i>Bivalvia</i> (Marine And Freshwater Molluscs)	SGCN Category				
Species	<i>Placopecten magellanicus</i> (Atlantic Sea Scallop)	3				
Species	<i>Mytilus edulis</i> (Blue Mussel)	3				
Species	<i>Mercenaria mercenaria</i> (Hard-shelled Clam)	3				
Species	<i>Chlamys islandica</i> (Icelandic Scallop)	3				
Class	<i>Chondrichthyes</i> (Sharks, Rays, And Skates)	SGCN Category				
Species	<i>Dipturus laevis</i> (Barndoor Skate)	2				
Species	<i>Malacoraja senta</i> (Smooth Skate)	2				

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Species	<i>Amblyraja radiata</i> (Thorny Skate)	2
Species	<i>Leucoraja ocellata</i> (Winter Skate)	2
Class	<i>Echinoidea</i> (Sea Urchins)	SGCN Category
Species	<i>Strongylocentrotus droebachiensis</i> (Green Sea Urchin)	2
Class	<i>Gastropoda</i> (Aquatic And Terrestrial Snails)	SGCN Category
Species	<i>Arrhoges occidentalis</i> (American Pelican Foot)	2
Species	<i>Boreotrophon clathratus</i> (Clathrate Trophon)	2
Species	<i>Boreotrophon truncatus</i> (Murex)	2
Species	<i>Ptychatractus ligatus</i> (Spindle Shell)	2
Species	<i>Limneria undata</i> (Wavy Lamellaria)	3
Class	<i>Holothuroidea</i> (Sea Cucumbers)	SGCN Category
Species	<i>Cucumaria frondosa</i> (Orange-footed Sea Cucumber)	2
Species	<i>Psolus fabricii</i> (Psolus)	2
Species	<i>Psolus phantapus</i> (Psolus)	2
Species	<i>Thyonidium drummondii</i> (Sea Cucumber)	2
Class	<i>Malacostraca</i> (Crustaceans)	SGCN Category
Species	<i>Lebbeus polaris</i> (Polar Lebbeid Shrimp)	2
Species	<i>Lebbeus groenlandicus</i> (Spiny Lebbeid Shrimp)	2
Class	<i>Merostomata</i> (Horseshoe Crabs And Sea Scorpions)	SGCN Category
Species	<i>Limulus polyphemus</i> (Horseshoe Crab)	1
Class	<i>Ophiuroidea</i> (Brittle Stars)	SGCN Category
Species	<i>Gorgonocephalus arcticus</i> (Northern Basket Starfish)	2
Class	<i>Rhynchonellata</i> (Brachiopods)	SGCN Category
Species	<i>Terebratulina septentrionalis</i> (Lamp Shell)	2

Endangered (E) and Threatened (T) Plant Species Associated With This Habitat: None assigned

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Stressors Associated With This Macrogroup

IUCN Level 2 Threat Name: Agricultural and Forestry Effluents

Notes: Though this threat has been drastically reduced with the implementation of best management practices, in coastal watersheds, excess runoff of nutrients, fertilizer, sedimentation, and pesticides can lead to poor water quality in tidal areas and lead to exc

IUCN Level 2 Threat Name: Domestic and Urban Waste Water

Notes: Though this threat can be reduced with the implementation of best management practices, in coastal watersheds, runoff can lead to non-point source pollution of nutrients, fertilizer, sediments, pesticides, vehicle contaminants, etc., which can lead to poor

IUCN Level 2 Threat Name: Fishing and Harvesting of Aquatic Resources

Notes: Fishing for demersal fish species, scallops, etc; dragging may alter benthic habitat; overfishing is also an issue in some case:

IUCN Level 2 Threat Name: Garbage and Solid Waste

Notes: Lost fishing gear, discarded plastics, boat mechanic fluid containers (oil, antifreeze). Sometimes can be retrieved (ghost gear programs), but is generally lost especially if offshore.

IUCN Level 2 Threat Name: Habitat Shifting or Alteration

Notes: Chemical changes in water chemistry (e.g. ocean acidification) can affect biological communities and natural processes

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IUCN Level 2 Threat Name: Industrial and Military Effluents

Notes: Release of effluents may contain high concentrations of toxic contaminants, etc. largely effects nearshore habitat, where impact can be long term. Oil spills can effect nearshore or offshore environments and can be either localized (if contained or small)

IUCN Level 2 Threat Name: Invasive Non-native-Alien Species-Diseases

Notes: E.g. green crabs, lobster shell disease

IUCN Level 2 Threat Name: Mining and Quarrying

Notes: Sand/gravel extraction for beach nourishment

IUCN Level 2 Threat Name: Recreational Activities

Notes: Fishing for demersal fish species, scallops, etc; overfishing is also an issue in some cases

IUCN Level 2 Threat Name: Renewable Energy

Notes: Mounting equipment and transmission cables for floating offshore wind turbines

IUCN Level 2 Threat Name: Shipping Lanes

Notes: Dredging associated with harbors

IUCN Level 2 Threat Name: Temperature Extremes

Notes: Sea surface temperature increases may change the community structure; exacerbate disease, etc.

Habitat Conservation Actions:

Relevant conservation actions for this habitat are assigned within broader habitat groupings in Maine's 2015 Wildlife Action Plan: Element 4, Table 4-15. Click on the Habitat Grouping of interest to launch a habitat based report summarizing relevant conservation actions and associated SGCN.

Species Conservation Actions:

Conservation actions that may benefit species associated with this habitat can be found in Maine's 2015 Wildlife Action Plan: Element 1, Table 1-3. Click on the species of interest to launch a species based report summarizing relevant conservation actions and associated habitats.

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The Wildlife Action Plan was developed through a lengthy participatory process with state agencies, targeted conservation partners, and the general public. The Plan is non-regulatory. The species, stressors, and voluntary conservation actions identified in the Plan complement, but do not replace, existing work programs and priorities by state agencies and partners.